

Title (en)
REDUCTION GEAR

Title (de)
UNTERSETZUNGSGETRIEBE

Title (fr)
ENGRENAGE RÉDUCTEUR

Publication
EP 2034219 A4 20100414 (EN)

Application
EP 07745006 A 20070611

Priority
• JP 2007061716 W 20070611
• JP 2006163263 A 20060613

Abstract (en)
[origin: EP2034219A1] The length of an inner meshing planetary gear type reduction gear transmission is reduced in its rotational axis line direction. A crank member (22) is arranged between a through hole 58 of an external gear (20a), a through hole (59 of an external gear (20b), and a support pin (24). An eccentric disk (25) that fits with the through hole (58) of the external gear (20a) and an eccentric disk (27) that fits with the through hole (59) of the external gear (20b) are formed on the crank member (24). A bearing (26) is arranged between the support pin (24) and the crank member (22), this bearing (26) supporting the crank member (22) such that the crank member (22) is capable of rotating with respect to the support pin (24). The length of the reduction gear transmission in its rotational axis line direction is reduced by contracting the length of the crank member (22), this reduction in length not including the length thereof that has the eccentric disks (25, 27).

IPC 8 full level
F16H 1/32 (2006.01)

CPC (source: EP KR US)
F16H 1/32 (2013.01 - EP KR US)

Citation (search report)
• [X] US 2001044356 A1 20011122 - TAKEUCHI KENICHI [JP], et al
• [XA] EP 1296084 A2 20030326 - TEIJIN SEIKI CO LTD [JP]
• [XA] EP 1662138 A1 20060531 - NABTESCO CORP [JP]
• [A] US 3129611 A 19640421 - ROYAL LEE
• See references of WO 2007145162A1

Cited by
DE102017126737A1; CN103270336A; EP3483473A1

Designated contracting state (EPC)
DE FR IT SE SK

DOCDB simple family (publication)
EP 2034219 A1 20090311; EP 2034219 A4 20100414; EP 2034219 B1 20111026; CN 101466967 A 20090624; CN 101466967 B 20111116; JP 2012229816 A 20121122; JP 5122450 B2 20130116; JP 5466741 B2 20140409; JP WO2007145162 A1 20091029; KR 101343669 B1 20131220; KR 20090034869 A 20090408; US 2009247349 A1 20091001; US 8323140 B2 20121204; WO 2007145162 A1 20071221

DOCDB simple family (application)
EP 07745006 A 20070611; CN 200780021565 A 20070611; JP 2007061716 W 20070611; JP 2008521187 A 20070611; JP 2012186891 A 20120827; KR 20097000584 A 20070611; US 30816507 A 20070611